Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A ceramic envelope for a high intensity discharge lamp made of a light transmission eeramicsceramic material, comprising:

a cylindrical barrel section forming an electric discharge light emitting space;
an annular closing section that closes both endseach end of the said barrel
section, respectively; and

a capillary section for inserting and fixing an electric discharge electrode to be outwardly protruded so as to be opposed to each other <u>extending</u> from a substantial eentersubstantially central position of both each said annular closing sections.

wherein the a barrel section thickness of at least one of the boundary sections section between both of the said barrel section and each said annular closing section is continuously increased at a ratio from 1.2 to 2.0 relevant relative to the a thickness of said barrel section in the vicinity of the a center of the electrical said electric discharge light emitting space.

2. (Currently Amended) A ceramic envelope for <u>a high intensity discharge lamp</u> made of a light transmission ceramics ceramic material, comprising:

a cylindrical barrel section forming an electric discharge light emitting space; an annular closing section that closes both ends <u>each end</u> of the <u>said</u> barrel Page 2 of 10

section, respectively; and

a capillary section for inserting and fixing an electric discharge electrode to be outwardly protruded so as to be opposed to each other extending from a substantial centersubstantially central position of both-each said annular closing sections.

wherein a ratio of an inner diameter of said barrel section, in the vicinity of an end of said barrel section, to an inner diameter of the a center of the said barrel section is equal to or greater than at least 0.8 and is less than 1.0.

3. (Currently Amended) A ceramic envelope for <u>a</u> high intensity discharge lamp made of a light transmission <u>seramics ceramic material</u>, comprising:

a cylindrical barrel section forming an electric discharge light emitting space; an annular closing section that closes both-endseach end of the said barrel section, respectively; and

a capillary section for inserting and fixing an electric discharge electrode to be outwardly protruded so as to be opposed to each other extending from a substantial eentersubstantially central position of both each said annular closing sections.

wherein a surface roughness Ra of the an interior surface of said barrel section is in a range of 0.01 μ m to 0.4 μ m, and the an additive concentration in the vicinity of the said interior surface of said barrel section is ½ or less of that in the vicinity of the center of the thickness.

4. (Currently Amended) A ceramic envelope for <u>a</u> high intensity discharge lamp made of a light transmission eerumies ceramic material, comprising:

a cylindrical barrel section forming an electric discharge light emitting space;
an annular closing section that closes both endseach end of the said barrel
section, respectively; and

a capillary section for inserting and fixing an electric discharge electrode to be outwardly protruded so as to be opposed to each other extending from a substantial eentersubstantially central position of both-each said annular closing sections.

wherein the a barrel section thickness of at least one of the boundary sections section between both of the said barrel section and each said annular closing section is continuously increased at a ratio from 1.2 to 2.0 relevant relative to the a thickness of said barrel section in the vicinity of the a center of an said electric discharge light emitting space, and a ratio of a diameter of said barrel section, in the vicinity of an end of the said barrel section, to a diameter of the a center of the said barrel section is equal to or greater than at least 0.8, and is less than 1.0.

5. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 1, wherein the a surface roughness Ra of the an interior surface of the said barrel section is from in a range of 0.01 μ m to 0.4 μ m, and the an additive concentration of the surface of said barrel section is ½ or less of that in the vicinity of the center of the thickness.

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- 6. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 3, wherein an said additive consists of at least one or more kinds of Sc₂O₃, MgO, ZrO₂, Y₂O₃, and lanthanoid based rare earth oxideoxides.
- 7. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 2, wherein the a surface roughness Ra of the an interior surface of the said barrel section is from in a range of 0.01 μ m to 0.4 μ m, and the an additive concentration of the surface of said barrel section is ½ or less of that in the vicinity of the center of the thickness.
- 8. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 4, wherein the a surface roughness Ra of the an interior surface of the barrel section is from in a range of 0.01 μ m to 0.4 μ m, and the an additive concentration of the surface of said barrel section is ½ or less of that in the vicinity of the center of the thickness.
- 9. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 5, wherein an-said additive consists of at least one or more kinds of Sc₂O₃, MgO, ZrO₂, Y₂O₃ and lanthanoid based rare earth oxide oxides.

- 10. (Previously Added) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 7, wherein an-said additive consists of at least one or more kinds of Sc₂O₃, MgO, ZrO₂, Y₂O₃ and lanthanoid based rare earth-oxide oxides.
- 11. (Currently Amended) A-The ceramic envelope for a high intensity discharge lamp as claimed in claim 8, wherein an said additive consists of at least one or more kinds of Sc₂O₃, MgO, ZrO₂, Y₂O₃ and lanthanoid based rare earth oxide oxides.